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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,244	09/25/2003	Joo-Sang Lee	2003P52603US/I331.104.101	8708
75	590 07/14/2004		EXAM	INER
Dicke, Billig & Czaja, PLLC Fifth Street Towers, Suite 2250 100 South Fifth Street Minneapolis, MN 55402			MAI, SON LUU	
			ART UNIT	PAPER NUMBER
			ARTONII	FAFER NOMBER
			2818	

DATE MAILED: 07/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/672,244	LEE, JOO-SANG				
	Office Action Summary	Examiner	Art Unit				
		Son L. Mai	2818				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 25	September 2003.					
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5)□ 6)⊠ 7)⊠ 8)□	4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-16 and 20 is/are rejected. 7) Claim(s) 17-19 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 25 September 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority u	under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Information	te of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 er No(s)/Mail Date <u>09-25-03</u> .	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-1: 	52)			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 09-25-03 has been considered.

Specification

- 2. The disclosure is objected to because of the following informalities: On page 5, line 12, "the word "and" should be –an--.
- 3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: In claim 17, the steps of: "tracking when a memory array block is accessed..." (line 8) and "utilizing the stored record of array block..." (line 11) are not described in the specification.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 1-16 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As for claim 1, "the memory bank" (line 4) lacks antecedent basis in the claim. Second, "refresh commands" (line 5) and "the refresh command" (line 8) are not

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consistent and confusing. Does the Applicant intend one or plural refresh commands? Clarify.

As for claims 10 and 20, the claims suffer similar deficiencies as in claim 1.

As for claims 2-9 and 11-16, the claims are rejected for their dependency on claims 1 and 10, respectively.

Allowable Subject Matter

- 6. Claims 17-19 would be allowable when proper antecedent basis for the claimed subject matter is provided.
- 7. Claims 1-16 and 20 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach a random access memory comprises a detection circuit coupled to a command block and to a memory array, the detection circuit configured to store a hit detect signal when the memory array is accessed, and receive the refresh command including enabling block select signals only when the hit detect signal is stored while the refresh command is received.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The U.S. patents cited in the PTO-892 disclose a refresh mode in a memory device with a power saving feature.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son L. Mai whose telephone number is 571-272-1786. The examiner can normally be reached on 8am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

07-10-04

Son L. Mai Primary Examiner Art Unit 2818